

REMARKS

Applicant submits that this response with accompanying documents places the application in a condition for examination.

Support for the amendment to the specification is found in Claims 4, 6, 23, 25, 56, and 58. Thus, the paper copy of the Sequence Listing includes no new matter in accordance with 37 C.F.R. § 1.825(a). The content of both the paper and computer readable forms of the Sequence Listing is the same, as required by 37 C.F.R. § 1.825(b).

Applicant submits that these documents place the application in a condition for examination. However, if there are any questions it would be appreciated if the Commissioner would telephone the undersigned.

The Commissioner is authorized to charge any deficiency or credit any overpayment associated with the filing of this application to Deposit Account 23-0035.

Respectfully submitted,



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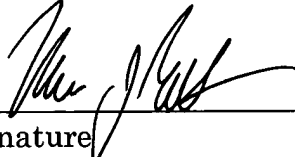
CERTIFICATE OF FIRST CLASS MAIL

I hereby certify that this Response to Notice to Comply with the Requirements for Patent Applications Containing Nucleotide Sequences and/or Amino Acid Sequence Disclosures is being deposited with the U.S. Postal Service, postage prepaid, in an envelope addressed to:

Assistant Commissioner for Patents
Washington, DC 20231

on April 23, 1999.

Mark J. Patterson



Signature
Registration Number 30,412

4/20/99

Date